

ABSTRACT

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The present invention is a method and apparatus for testing random numbers generated by a random number generator in real time. As a series of random numbers are generated, a number of bits that have the value of a predetermined logic value at a specific, predefined range of intervals is determined and then applied to an exponential averaging operation (A). Thereafter, it is determined whether the generated random numbers are predictable by comparing the output of all said exponential operations to their predetermined acceptance range.

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